



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/609,262	06/26/2003	Reza Stegamat	12406-156001 / P2003,0842	8094
26181	7590	08/29/2006	EXAMINER	
FISH & RICHARDSON P.C. PO BOX 1022 MINNEAPOLIS, MN 55440-1022			THOMPSON, CAMIE S	
			ART UNIT	PAPER NUMBER

1774

DATE MAILED: 08/29/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/609,262	Applicant(s) STEGAMAT ET AL.	
	Examiner Camie S. Thompson	Art Unit 1774	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on Amendment filed June 7, 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-4,6-9,11-14,16-19,21-26 and 28-33 is/are pending in the application.
4a) Of the above claim(s) 6-9,16-19 and 21-26 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4,11-14 and 28-33 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>6/7/06; 2/6/06</u> | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Applicant's amendment and accompanying remarks filed June 7, 2006 are acknowledged.
2. Examiner acknowledges amended claims 1, 4, 6, 9, 11, 14, 16, 19, 21, 26, 28 and 33.
3. Examiner acknowledges cancelled claims 5, 10, 15, 20, 27 and 34.
4. Claims 6-9, 16-19 and 21-26 stand withdrawn.
5. The objection to the Information Disclosure Statement is withdrawn due to applicant's submission of the IDS.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

7. Claims 1-4, 11-14 and 28-333 are rejected under 35 U.S.C. 102(b) as being anticipated by 2003/0222250.

Hsu discloses a light emitting device on a substrate wherein the light emitting device comprises an anode, a cathode, an active emission layer positioned between the anode and the cathode, and a buffer layer positioned between the anode and the active emission layer (see column 1, paragraph 0006). Additionally, the reference discloses that the buffer layer is comprised of an aqueous dispersion of an electrically conducting polymer (see paragraph 0019). Paragraph 0016 of the Hsu reference discloses that the buffer layer can be applied by ink jet printing as per instant claim 3. Also, it is disclosed in paragraph 0027 of the Hsu reference that there can be two

Art Unit: 1774

or more buffer layer (plurality of substantially electrically isolated conducting polymer regions).

Paragraphs 0021-0025 of the reference disclose that the anode and cathode are patterned wherein the anode and cathode strips intersect to form an electrically isolated pixel as per instant claim 5.

Examples 17-20 of the Hsu reference discloses that the buffer layer is comprised of 1.5 to 2.0% w/w PEDOT/PSS in water. The conductivity of PEDOT/PSS is a physical property of the polymer conducting solution. Inherently, it is expected that the conductivity of the solution is within the range of 1.5×10^{-3} S/cm, as this is a physical property of the solution.

Response to Arguments

8. Applicant's arguments with respect to claims 1-4, 11-13 and 28-33 have been considered.

Applicant argues that the Hsu reference does not disclose a plurality of electrodes. Paragraph 0015 of the Hsu reference discloses that the anode is a multilayered anode and a patterned cathode (see paragraph 0025). Additionally, Hsu discloses that the device has pixels, which would include a plurality of anodes and a plurality of cathodes (first and second electrodes). Applicant also argues that the reference does not disclose that the conducting polymer region is electrically isolated from a conducting region at an adjacent pixel. The limitation "substantially electrically isolated" in the present claims does not add any patentable weight to the present claims. The term "substantially" is a relative term and does not provide a standard for the isolation between the conducting regions at adjacent pixels. The rejection is maintained.

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Art Unit: 1774

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communication from the examiner should be directed to Camie S. Thompson whose telephone number is (571) 272-1530. The examiner can normally be reached on Monday through Friday from 7:30 am to 4:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena L Dye, can be reached at (571) 272-3186. The fax phone number for the Group is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


RENA DYE
SUPERVISORY PATENT EXAMINER

A.U. 1774
8/5/07